Concepcion
Carrier
Air conditioning
Company

Philippines

INSTALLATION, START-UP AND SERVICE INSTRUCTIONS

38ASB/CCARS240~600 (036~060) AIR-COOLED CONDENSING UNIT

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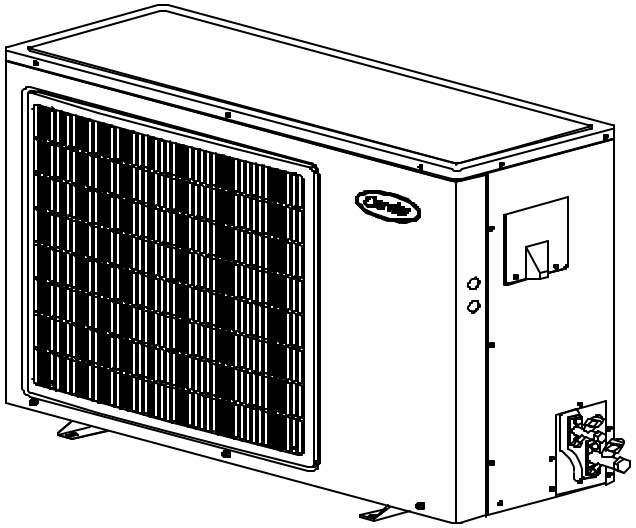


FIG. 1
38ASB/CCARS240~600
(036~060) Export

SAFETY CONSIDERATIONS

Installation and servicing of air conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair or service air conditioning equipment. Observe precautions in the literature, tags and labels attached to the unit and other safety codes. Wear safety glasses and gloves. Use quenching cloth and have fire extinguisher available for all brazing operations.

RECEIVING

38ASB/CCARS240~600 condensing units (Fig. 1) are shipped individually packed in carton boxes. When cartons are individually off loaded from truck, do not roll, nor throw, or drop the carton, to avoid damages to the content. Store boxes upright as the symbols or the boxes indicate. Do not stack units more than 2 high.

INSPECTION

Check the shipment against shipping list and remove unit from the carton and take off protective covering. If the unit has been damaged, file claim with Transportation Company and notify Carrier immediately.

PROTECTION

Protect unit from damage caused by job site debris. Do not allow dust, debris and water get into the unit. These will damage unit's component and unit's performance will be affected.

WARNING

Before installing or servicing system always turn off main power supply. There may be more than one disconnect switch. Electrical shock can cause personal injury.

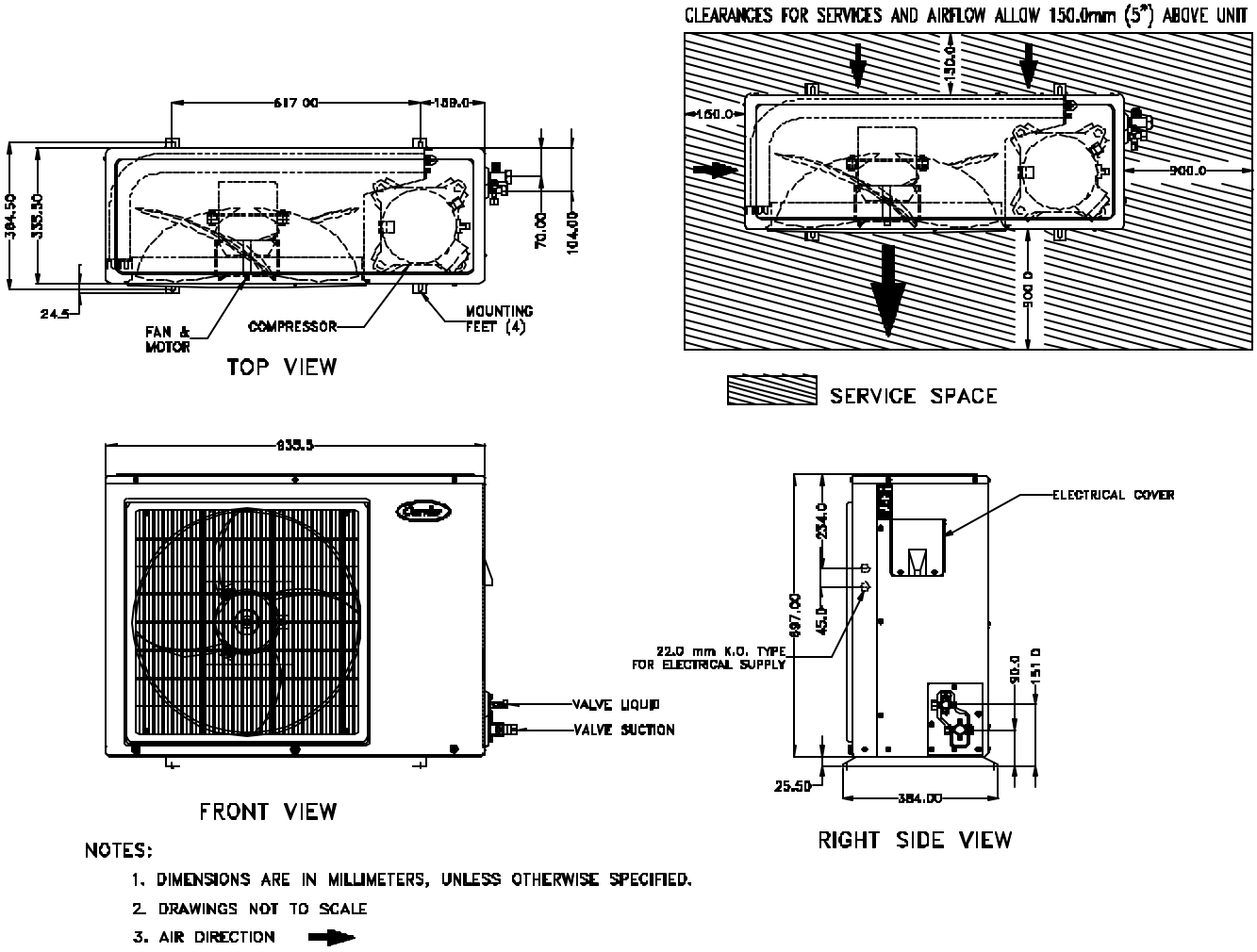


FIG. 2 38ASB/CCARS024~060 DIMENSIONAL DRAWING

TABLE 1 – MODEL IDENTIFICATION

	SERIES	2TR	3TR		5TR	
			STD	(EXPORT)	STD	(EXPORT)
OLD MODEL NUMBER	38ASB	38ASB240BA	38ASB360BA	38ASB036BA	38ASB600DB * 38ASB600DC **	38ASB060BA
NEW MODEL NUMBER	CCAR	CCARS024EA	CCARS036EA	-	CCARS060KA	-
REMARKS						Single phase supply volatge

Legend:

* - Model used for 40KMC/GKX, 42GX/AR, 40LX

** - Model used for SlimPack ASBFE600BA

TABLE 2 SPECIFICATIONS

MODEL		38ASB / CCARS					
		240BA	**360BA**	**036BA** (Export)	**060BA** (Export)	**600DA/DB**	**600DC**
OPERATING WEIGHT	(kg)	67	80.5	80.5	95	85	85
GROSS WEIGHT	(kg)	69.5	83	83	97.5	87.5	87.5
REFRIGERANT	Type	R-22					
	Factory charged (kg)	1.5	2.52	2.52	2.55	2.27	2.50
COMPRESSORS	Type	Hermetic					
	Oil Charged (l)	0.90	1.30	1.30	1.66	1.95	1.95
	LRA (A) Nominal	66	91	91	175	139	135
	Running Amps (A)*	12.6	16.8	16.8	26.8	16.7	15.0
	Power Supply	230V-1Ph-60Hz				230V-3Ph-60Hz	
CONDENSER FAN	Type	Propeller					
	Number	1					
	Blade Dia. (mm)	550					
	Speed (rpm)	950					
	Drive	Direct Drive					
FAN MOTOR	Type	Permanent Split Capacitor					
	Power Supply	230V-1Ph-60Hz					
	Running Amps (A)*	1.7					
CONDENSER COIL	Rows - Fins/inch	2R - 15	2.5 - 15		3.5R - 15	3R - 15	
	Face Area (m^2)	0.379	0.536		0.654		
CONNECTIONS	Type	Flare					
	Liquid, (mm) inch.	(9.5) 3/8					
	Suction, (mm) inch.	(15.88) 5/8		(19.05) 3/4			
CONTROLS; PRESSURES SWITCH SETTINGS	High Cut Out (psi)	426 ? 20					
	Cut In (psi)	320 ? 10					
	Low Cut Out (psi)	27 ? 4					
	Cut In (psi)	67 ? 7					
NOMINAL POWER SOURCE	V-Ph-Hz	230V-1Ph-60Hz				230V-3Ph-60Hz	
ABSOLUTE MIN. - MAX VOLTAGE	(V)	197 - 253				180 - 253	

LRA : Locked Rotor Amps

✍✍ Data rated to PNS standard at 35^{0}C (95^{0}F) Ambient, 27.0^{0}C / 19.0^{0}C (80.6^{0}F / 66.2^{0}F) Indoor Condition.

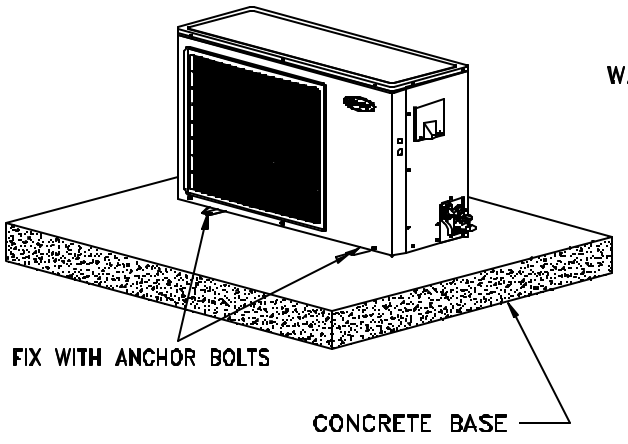


FIG. 3 GROUND MOUNTING

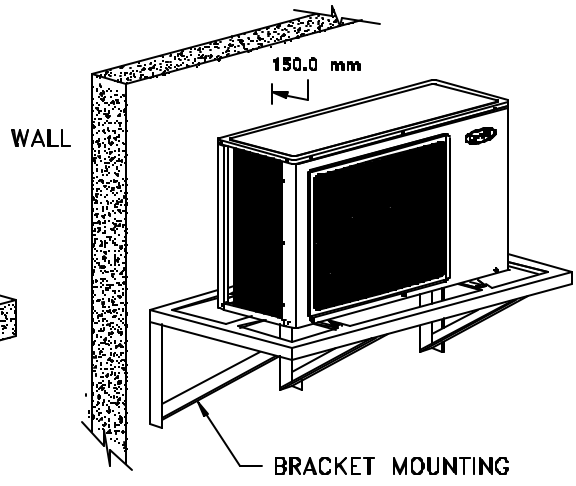


FIG. 4 WALL MOUNTING

INSTALLATION

SELECTION OF MOUNTING POSITION

1) The unit should be installed outdoors.
2) A place where air will not be stagnant.
3) A place where the exhausted air will not be sucked in for the second time.
4) Allow sufficient space for airflow clearance, wiring, refrigerant piping and servicing unit. See Fig. 2.
5) Avoid positioning unit in such a manner that water will pour directly onto the unit.
6) Do not install the unit near a source of heat, steam or flammable gas.
7) Ducting of the fan inlet or discharge is not permitted.

UNIT MOUNTING

1) **MOUNTING ON GROUND** – Mount on a solid, level concrete base. If conditions or local building codes require unit to be fastened to base, tie down bolts should be used and fastened through slots provided in unit's mounting feet (Fig. 3). Do not install unit directly on ground.

2) **MOUNTING ON AND AGAINST THE WALL** – the bracket is to be locally procured (Fig. 4).

3) **MOUNTING ON ROOF** – Mount on a level platform or frame. When multiple unit are installed, the air outlet side should be opened as shown in Fig. 5.

When installation base is used, secure the required spacing as per (Fig. 6). Fabricate the stand so that it will have sufficient strength.

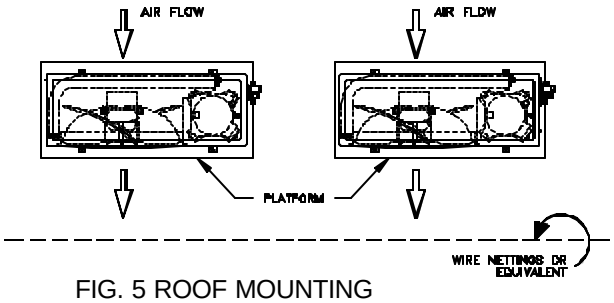


FIG. 5 ROOF MOUNTING

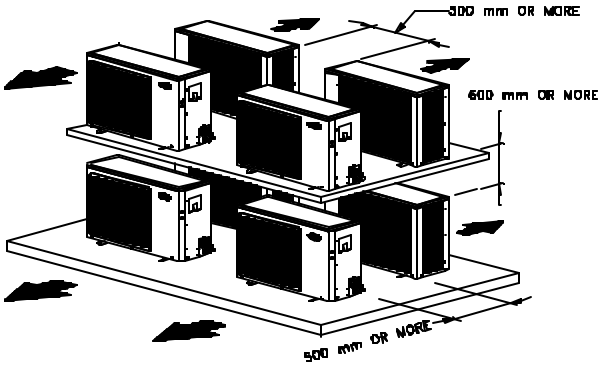


FIG. 6 MINIMUM SPACING REQUIREMENT

REFRIGERANT PIPING

Size Refrigerant Lines. Consider length of piping required between unit and evaporator, amount of liquid lift and compressor oil return (Table 4).

Run refrigerant tubes as directly as possible, avoiding unnecessary turns and bends. Condensing unit may be connected to evaporator sections using field-supplied tubing of refrigerant grade, correct size and condition. Suspend refrigerant tubes so they do not transmit vibration to structure. Also when passing refrigerant tubes through walls, seal opening so vibration is not transmitted to structure. Leave some slack in refrigerant tubes between structure and unit to absorb vibration. The longer the piping, the lower the cooling capacity of the unit. See table 3.

TABLE 3 – REDUCTION IN CAPACITY VS INCREASE IN PIPE LENGTH

MODEL 38ASB / CCAR	PIPING LENGTH (ONE WAY)					
	5m	10m	15m	20m	25m	30m
240	0%	1.2%	2.0%	2.8%	3.5%	4.5%
360 / 036	0%	1.6%	2.6%	3.6%	4.6%	5.6%
600 / 060	0%	2.8%	4.8%	6.7%	8.7%	10.2%

As such the following are the operating limits. Refer to Table 4 and fig. 7.

TABLE 4 – VERTICAL AND HORIZONTAL SEPARATION BETWEEN INDOOR AND OUTDOOR UNIT

MODEL 38ASB / CCARS024~060	MAX. HEIGHT H(m)	MAX. LENGTH L(m)	LIQUID LINE	
			MAX. ALLOWABLE PRESSURE DROP (kPa)	MAX. ALLOWABLE TEMPERATURE LOSS (^{0}C)
024	(20)15	25	151	5
360 / 036	(20)15	25		
600 / 060	(25)15	30		

Note: 1) Values shown are for units operating at 7.2^{0}C saturated suction and 35^{0}C entering air.
2) Values in ( ) indicate a case when the outdoor unit is located at a lower height than the indoor unit.

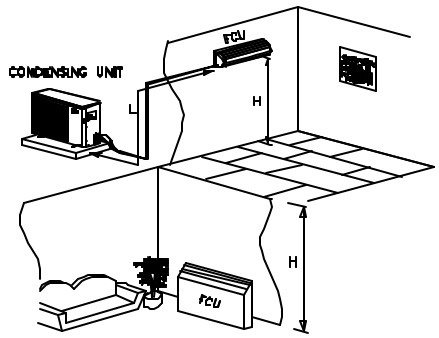


FIG. 7 MAXIMUM ALLOWABLE PIPING LENGTH AND ELEVATION DIFFERENCE

Do not bury section of line set underground. If any section is buried, refrigerant may migrate to cooled buried section during extended period of unit shutdown. This causes refrigerant slugging and possible compressor damage at start-up.

If either refrigerant tubing or indoor coil is exposed to atmospheric conditions for longer than 5 minutes, it must be evacuated to 1000 microns to eliminate contamination and moisture in the system.

PIPING CONNECTIONS
Complete all installation and piping work required for indoor and outdoor units. If brazing is required pass nitrogen or other inert gas through piping to prevent formation of cooper oxide. Unit contains R-22 charge, do not open Schreader valve at this time. Leak test field piping by pressure method.

PIPING INSULATION
No refrigerant control device is shipped with the unit except 024 model. It is already installed in matching Fan coil units, check carefully the indoor unit. Insulate suction line adequately (Fig. 8)

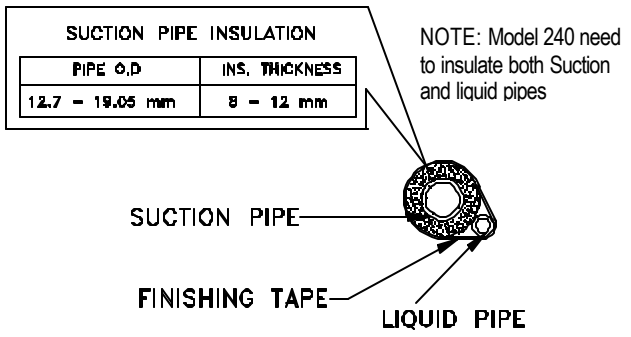


FIG. 8 PIPING INSULATION

COMPLETE ELECTRICAL CONNECTIONS

CAUTION

THE CONTROL VOLTAGE FROM THE FAN COIL UNIT MUST BE OF 230V. DO NOT CONNECT THE POWER SUPPLY TO THE SIGNAL

POWER – Unit is factory wired for voltage shown on name plate. Provide adequate fused disconnect switch within sign of unit, readily accessible, but out of reach children.

Provide for locking switch open (OFF) is advisable to prevent power from being turned on while unit is being serviced.

Route power wires through opening in unit side panel and connect in unit control box (fig. 9). Unit must be grounded.

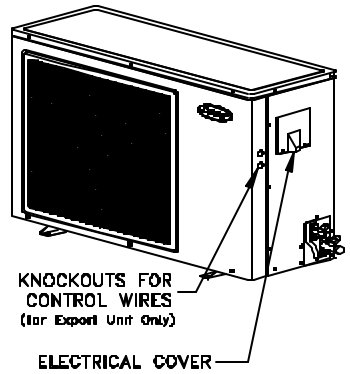


FIG. 9 POWER WIRES TO THE SIDE OF UNIT

CONTROL CIRCUIT WIRING
Refer to wiring diagram for field supplied wiring details. See Fig. 11 & 12.

Note: - Operation of unit on improper line voltage constitutes abuse and could affect Carrier Warranty. Do not install unit in system where voltage may fluctuate above or below permissible limits.

START-UP
PRELIMINARY CHECKS:
1) Check that all internal wiring connections are tight and all barriers, covers and panels are in place.
2) Field electrical power source must agree with unit name plate rating.
3) All service valves must be opened.

START SYTEM
1. Check that field disconnect is closed.
2. Set room thermostat to below room temperature, and unit compressor will start after 3 minutes delay o.
3. Check back pressure when compressor runs. Add charge to keep back pressure at approximately 448kPa (65 PSIG).

REFRIGERANT CHARGING

CAUTION

TO PREVENT PERSONAL INJURY, WEAR SAFETY GLASSES AND GLOVES WHEN HANDLING REFRIGERANT. DO NOT OVERCHARGED SYSTEM. THIS CAN CAUSE COMPRESSOR FLOODING.

IMPORTANT

For accurate system performance, charge by superheat method as shown in table 5 and 6.

To check and adjust charge, follow the following procedures:-

1) Operate unit for a minimum of 15 minutes before checking charge.
2) Measure suction pressure by attaching a gauge to suction line service port.
3) Measure suction line temperature by attaching a service thermometer to unit suction line near suction valve. Insulate thermometer for accurate readings.
4) Measure outdoor coil air inlet dry-bulb temperature with a second thermometer.
5) Measure indoor coil air inlet wet-bulb temperature with a sling psychrometer.
6) Refer to table 5. Find air temperature entering outdoor coil & wet-bulb temperature entering indoor coil. At this intersection, note the superheat.
7) Refer to table 6 . Find superheat temperature and suction pressure, note suction line temperature.

REFRIGERANT CHARGING (cont)

8) If unit has higher suction line temperature than charted temperature add refrigerant until charted temperature is reached.
9) If unit has lower suction line temperature than charted temperature, bleed refrigerant until charted temperature is reached.
10) If air temperature entering outdoor coil or pressure at suction line charge to new suction line temperature indicated on chart.
11) This procedure is valid independent of indoor air quantity.

SERVICE AND MAINTENACE

CAUTION

BEFORE PERFORMING RECOMMENDED MAINTENANCE AND SERVICE, BE SURE UNIT MAIN POWER SWITCH IS TURNED OFF. FAILURE TO DO SO MAY RESULT IN ELECTRIC SHOCK OR INJURY FROM ROTATING FAN BLADE.

CLEANING COIL – Coil should be washed out with water or blow out with compressed air. The draw thru design causes dirt and debris to built up on the outside of the coils. Clean coil as follows:-

1) Turn off unit power.
2) Using a water hose or other suitable equipment, flush coil from the inside to remove dirt (see Fig. 10). Be sure to flush all dirt and debris from drain holes in base of unit. Fan motor is water proof but it is more safe to cover or wrap motor shell with plastic sheet (or plastic bag) to prevent water from getting inside.

Clean coil semi-annually or as required. Fins are not continuous through coil sections. Dirt and debris may pass between the row of fins and become trapped between the row of fins and restrict condenser air flow. Use a flashlight to determine if dirt or debris has collected between coil section.

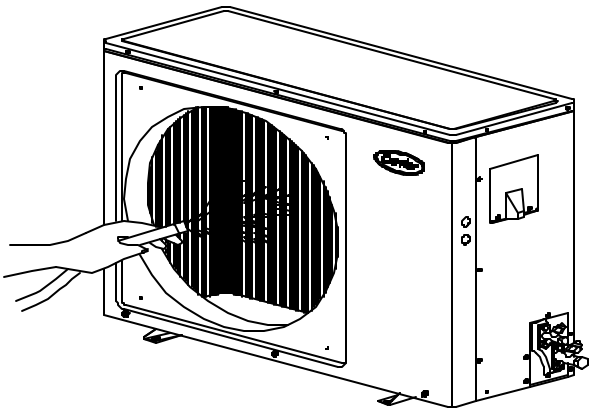


FIG. 10 CLEANING COIL WITH WATER

LUBRICATION
Fan motor is permanently sealed lubricated bearings. Do not oil. Compressor is supplied charged with oil. Replace oil when lost. See table 2 for oil recharge quantity.

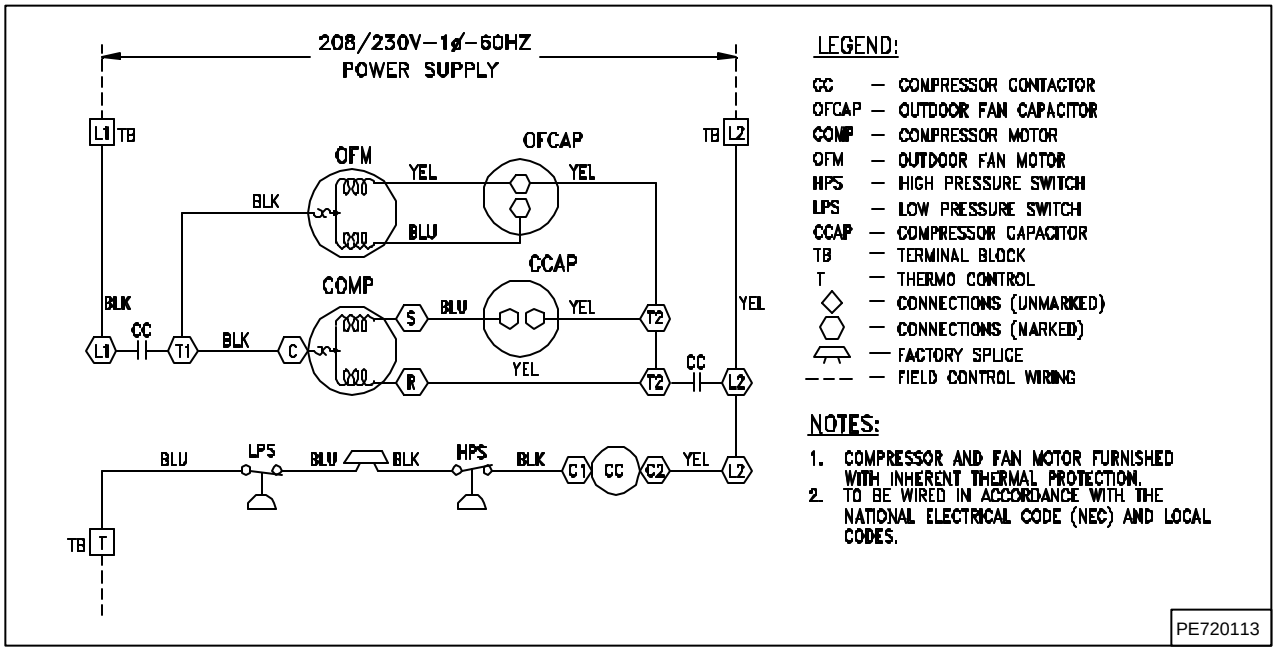


FIG. 11 38ASB240BA, 360 & 036 / 060 (export models) WIRING

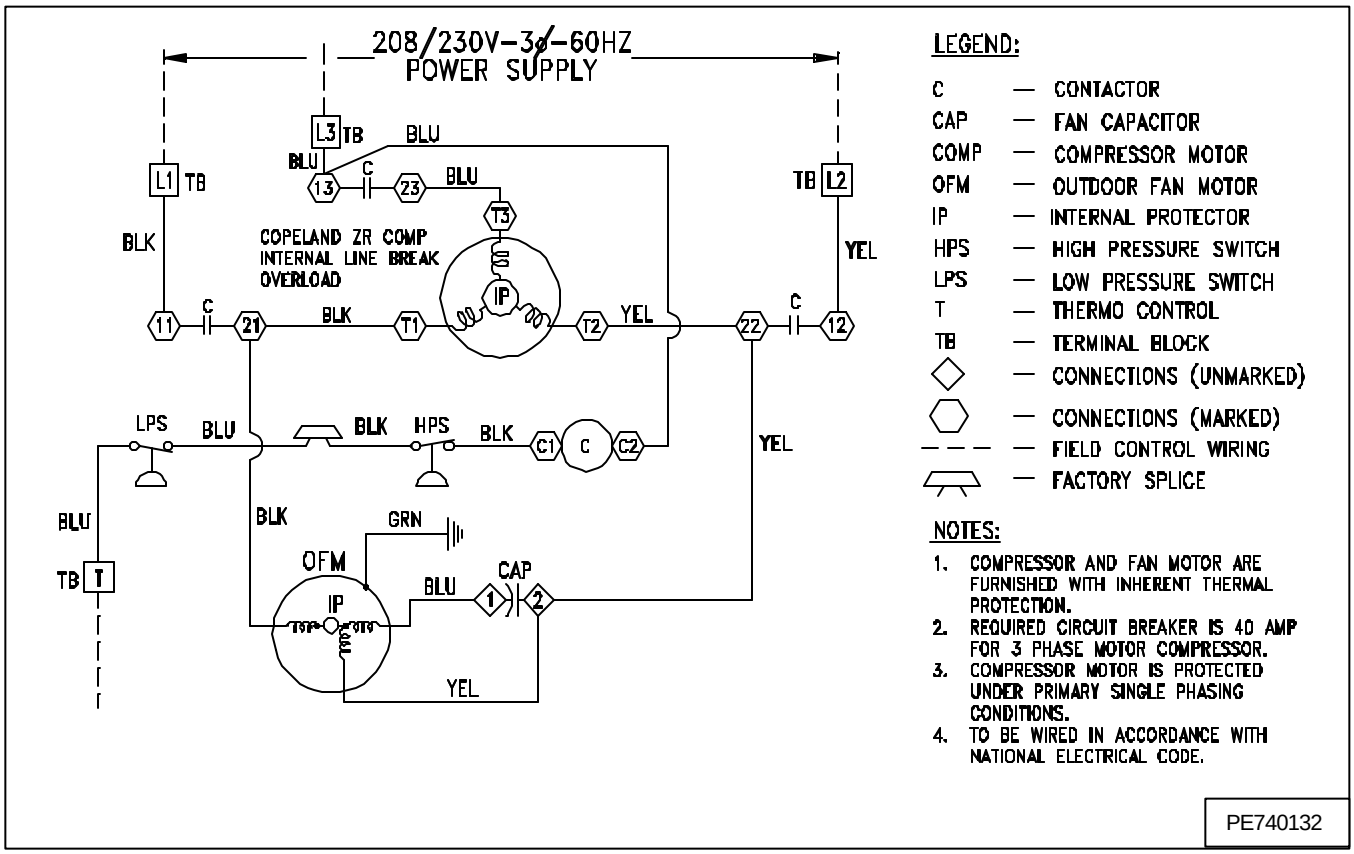


FIG. 12 38ASB600DC WIRING DIAGRAM

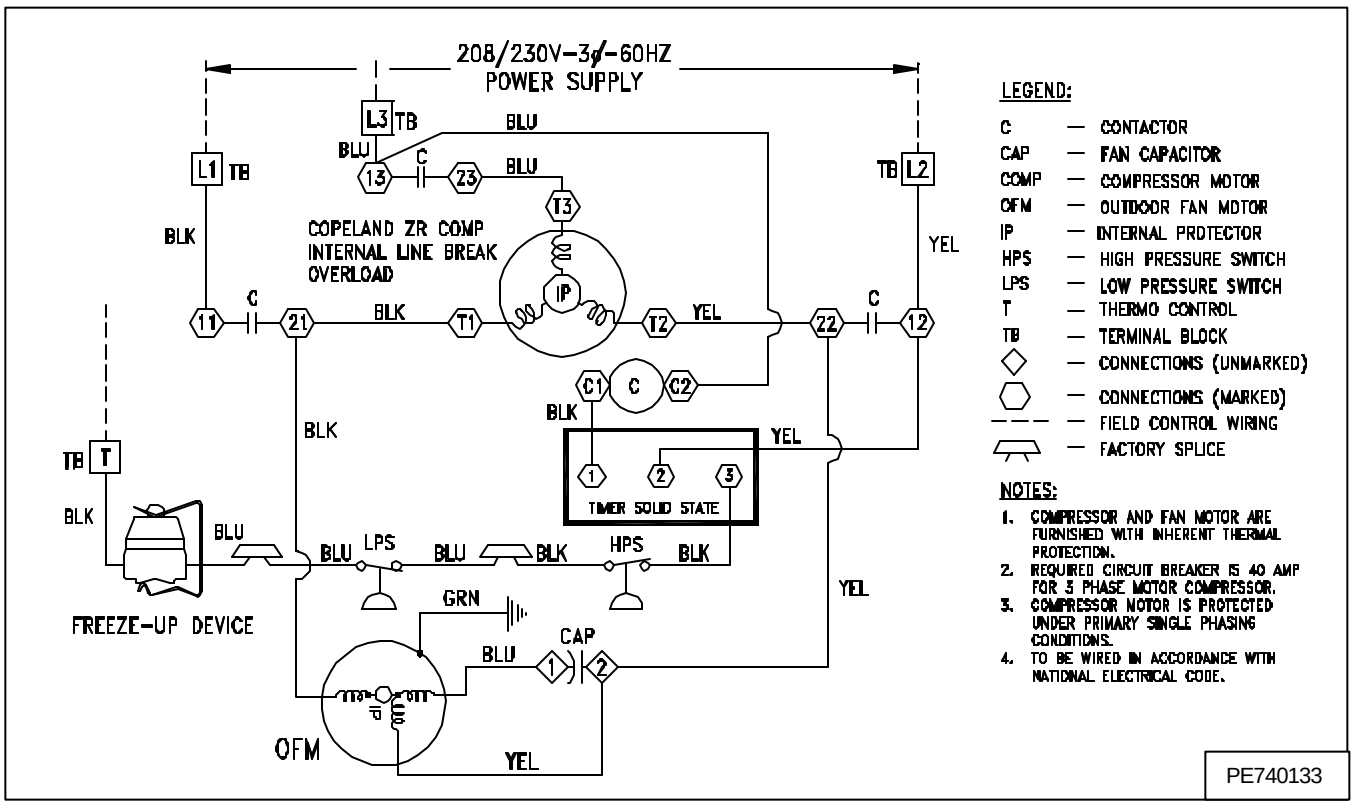


FIG. 13 38ASB600DB WIRING DIAGRAM

NOTE:

FOR OTHER 38ASB WIRING DIAGRAM NOT SHOWN HERE, PLEASE REQUEST COPIES FROM **CCAC ENGINEERING DEPARTMENT.**

TABLE 5

Superheat Charging Table
(Superheat Entering Suction Service Valve)

OUTDOOR TEMP (^{0}F)	INDOOR COIL ENTERING AIR (^{0}F) WET-BULB													
	50	52	54	56	58	60	62	64	66	68	70	72	74	76
55	9	12	14	17	20	23	26	29	32	35	37	40	42	45
60	7	10	12	15	18	21	24	27	30	33	35	38	40	43
65	--	6	10	13	16	19	21	24	27	30	33	36	38	41
70	--	--	7	10	13	16	19	21	24	27	30	33	36	39
75	--	--	–	6	9	12	15	18	21	24	28	31	34	37
80	--	--	–	–	5	8	12	15	18	21	25	28	31	35
85	--	--	–	–	–	–	8	11	15	19	22	26	30	33
90	--	--	–	–	–	–	5	9	13	16	20	24	27	31
95	--	--	–	–	–	–	--	6	10	14	18	22	25	29
100	--	--	–	–	–	–	--	--	8	12	15	20	23	27
105	--	--	–	–	–	–	--	--	5	9	13	17	22	26
110	--	--	–	–	–	–	--	--	--	6	11	15	20	25
115	--	--	–	–	–	–	--	--	--	--	8	14	18	23

- Do not attempt to charge system under these conditions of refrigerant slugging may occur.

Superheat Charging Table
(Superheat Entering Suction Service Valve)

OUTDOOR TEMP (^{0}C)	INDOOR COIL ENTERING AIR (^{0}C) WET-BULB													
	10	11.1	12.2	13.3	14.4	15.6	16.7	17.8	18.9	20	21.1	22.2	23.3	24.4
12.8	5	6.7	7.8	9.4	11.1	12.8	14.4	16.1	17.8	19.4	20.6	22.2	23.3	25
15.5	3.9	5.6	6.7	8.3	10	11.7	13.3	15	16.7	18.3	19.4	21.1	22.2	23.9
18.3	--	3.3	5.8	7.2	8.9	10.6	11.7	13.3	15	16.7	18.3	20	21.1	22.8
21.1	--	–	3.9	5.6	7.2	8.9	10.6	11.7	13.3	15	16.7	18.3	20	21.7
23.9	--	–	--	3.3	5	6.7	8.3	10	11.7	13.3	15.6	17.2	18.9	20.6
26.7	--	–	--	--	2.8	4.4	6.7	8.3	10	11.7	13.9	15.6	17.2	19.4
29.4	--	–	--	--	–	--	4.4	6.1	8.3	10.6	12.2	14.4	16.7	18.3
32.2	--	–	--	--	–	--	2.8	5	7.2	8.9	11.1	13.3	15	17.2
36.0	--	–	--	--	–	--	--	4.4	5.6	7.8	10	12.2	13.9	16.1
37.8	--	–	--	--	–	--	--	--	3.3	6.7	8.3	11.1	12.8	15
40.6	--	–	--	--	–	--	--	--	2.8	5	7.2	9.40	12.2	14.4
43.3	--	–	--	--	–	--	--	--	–	3.3	6.1	8.3	11.1	13.9
46.1	--	–	--	--	–	--	--	--	–	--	4.4	7.8	10	12.8

- Do not attempt to charge system under these conditions or refrigerant slugging may occur.

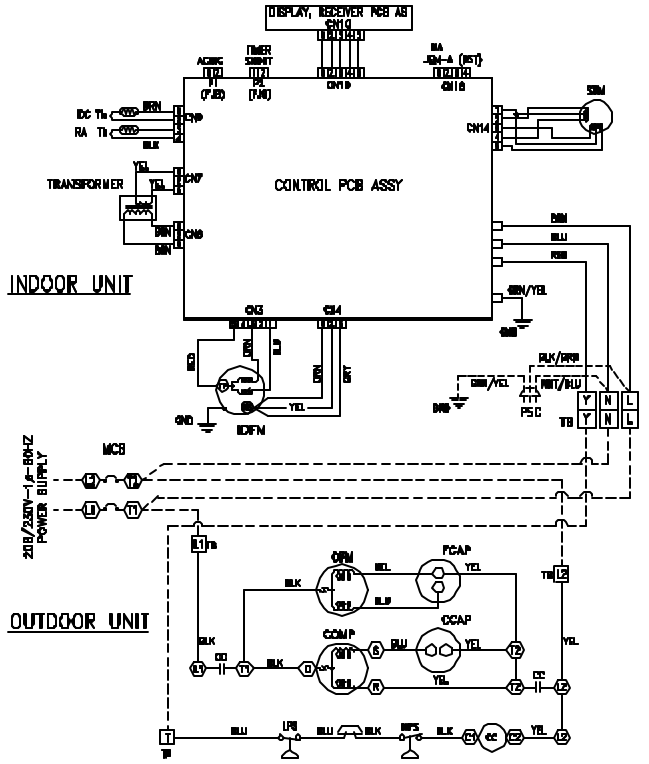
TABLE 6

Required Suction Tube Temperature (^{0}F)
(Entering Suction Service Valve)

SUPERHEAT TEMP (^{0}F)	SUCTION PRESSURE AT SERVICE PORT (psig)								
	61.5	64.2	67.1	70.0	73.0	76.0	79.2	82.4	85.7
0	35	37	39	41	43	45	47	49	51
2	37	39	41	43	45	47	49	51	53
4	39	41	43	45	47	49	51	53	55
6	41	43	45	47	49	51	53	55	57
8	43	45	47	49	51	53	55	57	59
10	45	47	49	51	53	55	57	59	61
12	47	49	51	53	55	57	59	61	63
14	49	51	53	55	57	59	61	63	65
16	51	53	55	57	59	61	63	65	67
18	53	55	57	59	61	63	65	67	69
20	55	57	59	61	63	65	67	69	71
22	57	59	61	63	65	67	69	71	73
24	59	61	63	65	67	69	71	73	75
26	61	63	65	67	69	71	73	75	77
28	63	65	67	69	71	73	75	77	79
30	65	67	69	71	73	75	77	79	81
32	67	69	71	73	75	77	79	81	83
34	69	71	73	75	77	79	81	83	85
36	71	73	75	77	79	81	83	85	87
38	73	75	77	79	81	83	85	87	89
40	75	77	79	81	83	85	87	89	91

Required Suction Tube Temperature (^{0}C)
(Entering Suction Service Valve)

SUPERHEAT TEMP (^{0}K)	SUCTION PRESSURE AT SERVICE PORT (KPaG)								
	424	443	463	483	503	524	546	568	591
0	1.7	2.8	3.9	5	6.1	7.2	8.3	9.4	10.6
1.1	2.8	3.9	5	6.1	7.2	8.3	9.4	10.6	11.7
2.2	3.9	5	6.1	7.2	8.3	9.4	10.6	11.7	12.8
3.3	5	6.1	7.2	8.3	9.4	10.6	11.7	12.8	13.9
4.4	6.1	7.2	8.3	9.4	10.6	11.7	12.8	13.9	15
5.6	7.2	8.3	9.4	10.6	11.7	12.8	13.9	15	16.1
6.7	8.3	9.4	10.6	11.7	12.8	13.9	15	16.1	17.2
7.8	9.4	10.6	11.7	12.8	13.9	15	16.1	17.2	18.3
8.9	10.6	11.7	12.8	13.9	15	16.1	17.2	18.3	19.4
10.0	11.7	12.8	13.9	15	16.1	17.2	18.3	19.4	20.6
11.1	12.8	13.9	15	16.1	17.2	18.3	19.4	20.6	21.7
12.2	13.9	15	16.1	17.2	18.3	19.4	20.6	21.7	22.8
13.3	15	16.1	17.2	18.3	19.4	20.6	21.7	22.8	23.9
14.4	16.1	17.2	18.3	19.4	20.6	21.7	22.8	23.9	25
15.6	17.2	18.3	19.4	20.6	21.7	22.8	23.9	25	26.1
16.7	18.3	19.4	20.6	21.7	22.8	23.9	25	26.1	27.2
17.8	19.4	20.6	21.7	22.8	23.9	25	26.1	27.2	28.3
18.9	20.6	21.7	22.8	23.9	25	26.1	27.2	28.3	29.4
20.0	21.7	22.8	23.9	25	26.1	27.2	28.3	29.4	30.6
21.2	22.8	23.9	25	26.1	27.2	28.3	29.4	30.6	31.7
22.2	23.9	25	26.1	27.2	28.3	29.4	30.6	31.7	32.8



LEGEND INDOOR:

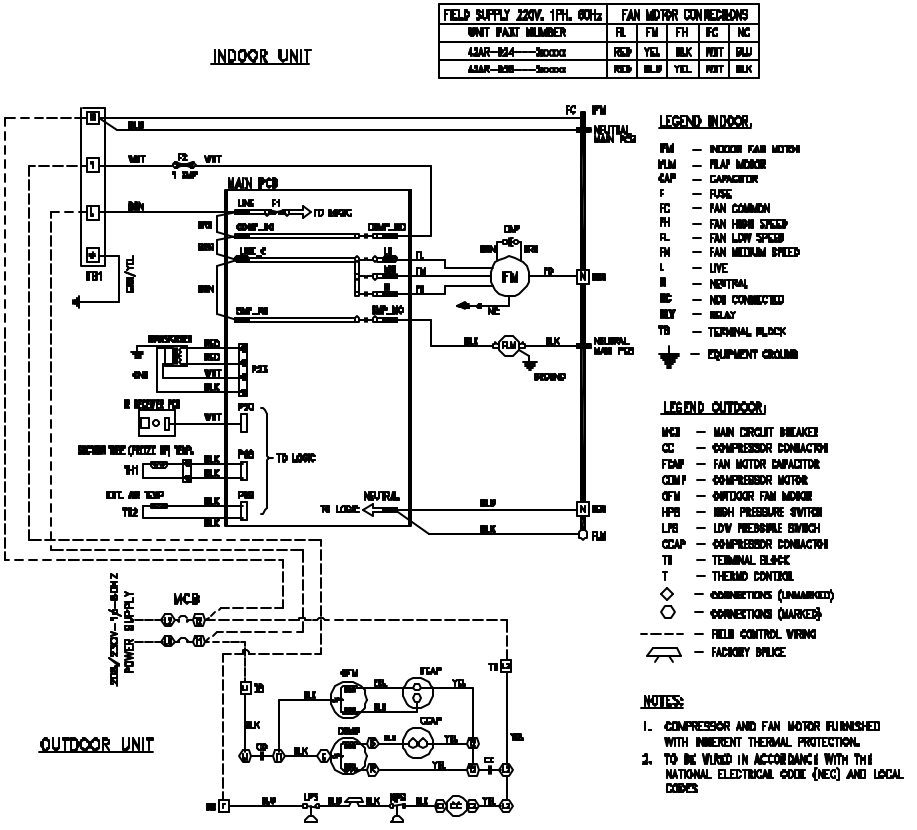
IDFM	— INDOOR FAN MOTOR
STM	— STEP MOTOR
IDC Th	— INDOOR COIL THERMISTOR
RA Th	— ROOM AIR THERMISTOR
CN	— CONNECTOR
PSC	— POWER SERVICE CORD
HS	— HALL (RPM) SENSOR
TP	— THERMAL PROTECTOR
	— EQUIPMENT GROUND

LEGEND OUTDOOR:

MCB	— MAIN CIRCUIT BREAKER
CC	— COMPRESSOR CONTACTOR
FCAP	— FAN MOTOR CAPACITOR
COMP	— COMPRESSOR MOTOR
CCAP	— COMPRESSOR CAPACITOR
OFM	— OUTDOOR FAN MOTOR
HPS	— HIGH PRESSURE SWITCH
LPS	— LOW PRESSURE SWITCH
T	— THERMO CONTROL
TB	— TERMINAL BLOCK
◇	— CONNECTIONS (UNMARKED)
⬡	— CONNECTIONS (MARKED)
	— FIELD CONTROL WIRING
	— FACTORY SPLICE

NOTES:
1. COMPRESSOR AND FAN MOTOR FURNISHED WITH INHERENT THERMAL PROTECTION.
2. TO BE WIRED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES

38ASB240BA MATCHED WITH 42PGA026



FIELD SUPPLY 220V. 1PH. 60Hz	FAN MOTOR CONNECTIONS				
UNIT PART NUMBER	FL	FM	FH	FC	NC
42AR—024—3xxxxx	RED	YEL	BLK	WHT	BLU
42AR—036—3xxxxx	RED	BLU	YEL	WHT	BLK

LEGEND INDOOR:

FM	— INDOOR FAN MOTOR
MLM	— FLAP MOTOR
CAP	— CAPACITOR
F	— FUSE
FC	— FAN COMMON
FH	— FAN HIGH SPEED
FL	— FAN LOW SPEED
FM	— FAN MEDIUM SPEED
L	— LIVE
N	— NEUTRAL
NC	— NOT CONNECTED
RLY	— RELAY
TB	— TERMINAL BLOCK
	— EQUIPMENT GROUND

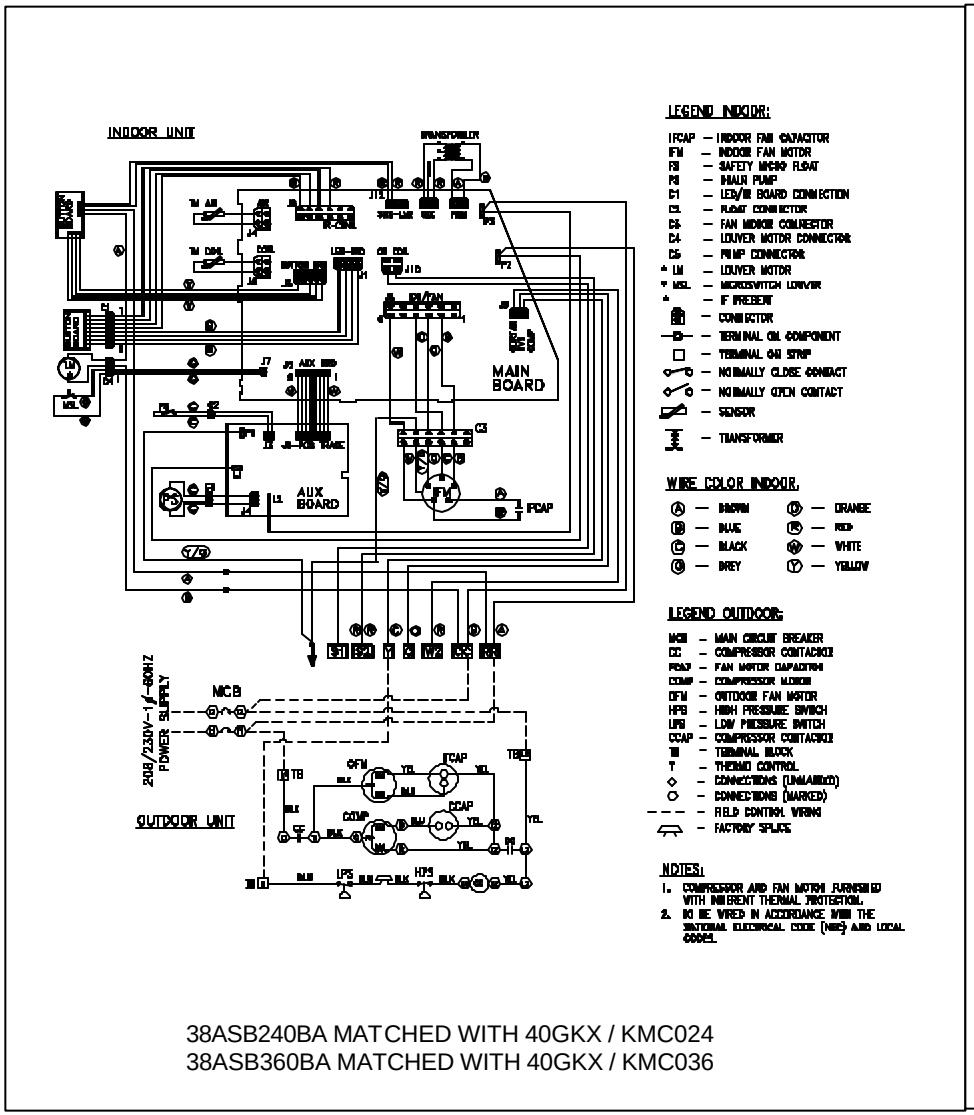
LEGEND OUTDOOR:

MCB	— MAIN CIRCUIT BREAKER
CC	— COMPRESSOR CONTACTOR
FCAP	— FAN MOTOR CAPACITOR
COMP	— COMPRESSOR MOTOR
OFM	— OUTDOOR FAN MOTOR
HPS	— HIGH PRESSURE SWITCH
LPS	— LOW PRESSURE SWITCH
CCAP	— COMPRESSOR CAPACITOR
TB	— TERMINAL BLOCK
T	— THERMO CONTROL
◇	— CONNECTIONS (UNMARKED)
⬡	— CONNECTIONS (MARKED)
	— FIELD CONTROL WIRING
	— FACTORY SPLICE

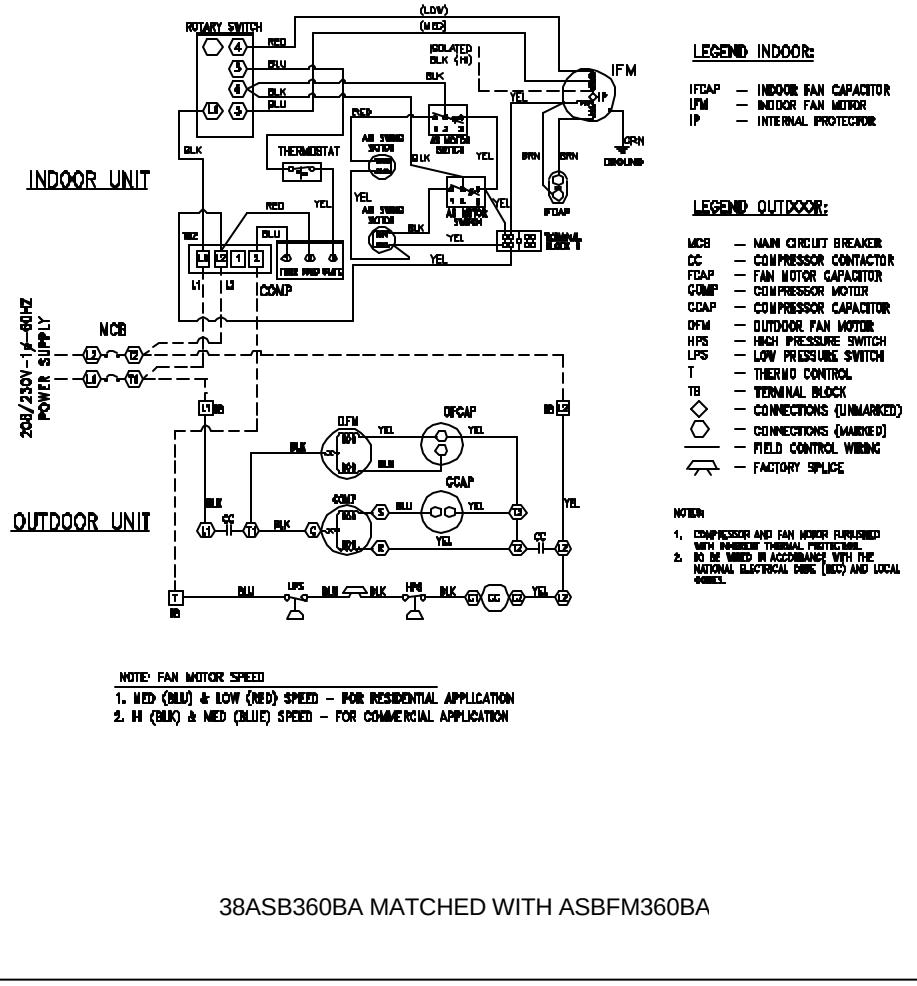
NOTES:
1. COMPRESSOR AND FAN MOTOR FURNISHED WITH INHERENT THERMAL PROTECTION.
2. TO BE WIRED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES

38ASB240BA MATCHED WITH 42AR024 / 42GX024
38ASB360BA MATCHED WITH 42AR036 / 42GX040

FIG. 14 SCHEMATIC SYSTEM WIRING DIAGRAM

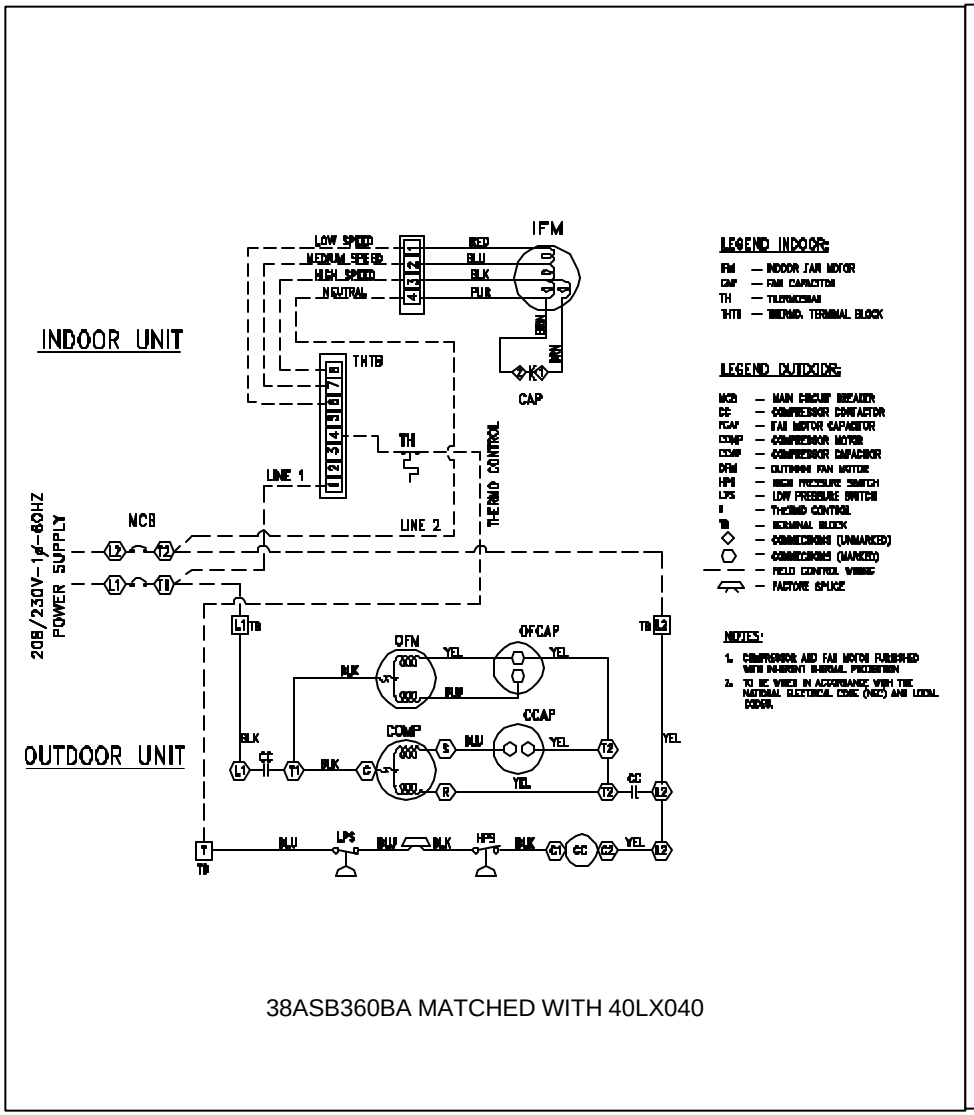


38ASB240BA MATCHED WITH 40GKX / KMC024
38ASB360BA MATCHED WITH 40GKX / KMC036

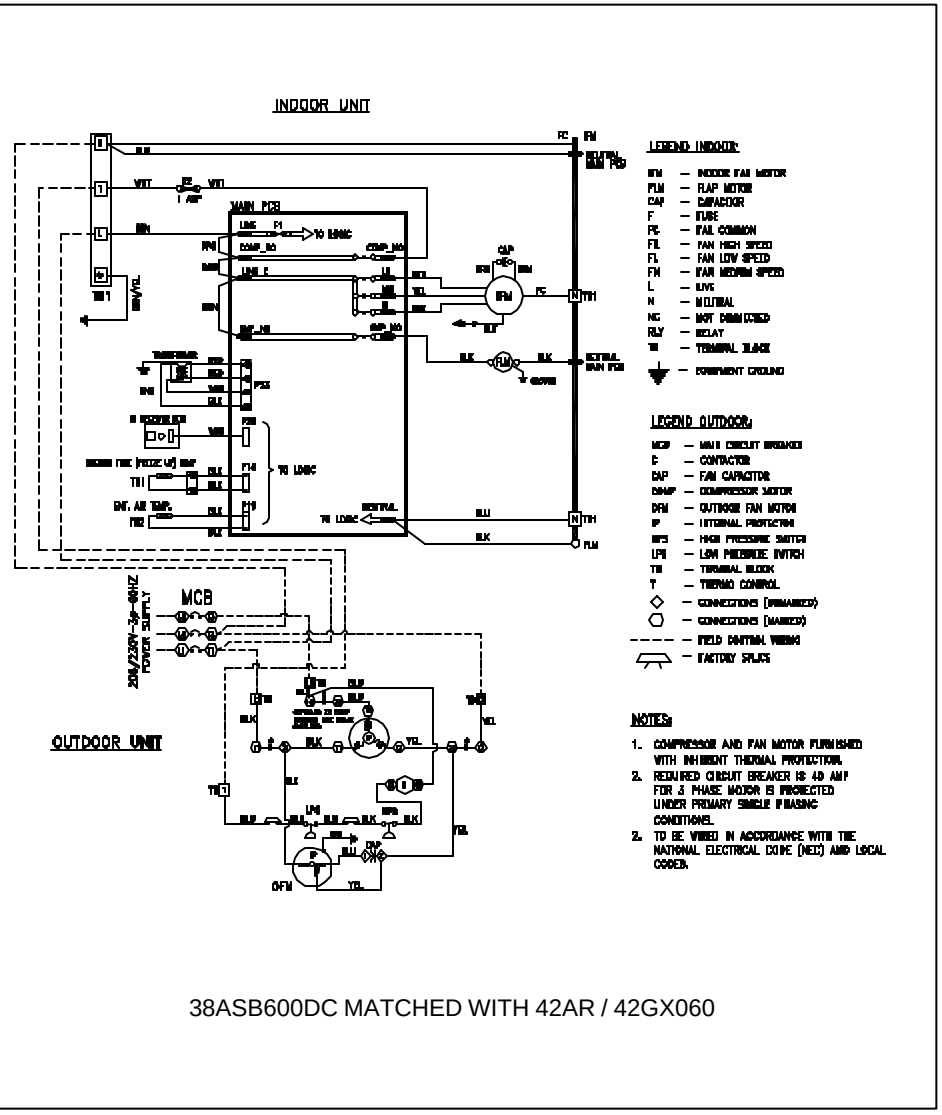


38ASB360BA MATCHED WITH ASBFM360BA

FIG. 15 SCHEMATIC SYSTEM WIRING DIAGRAM

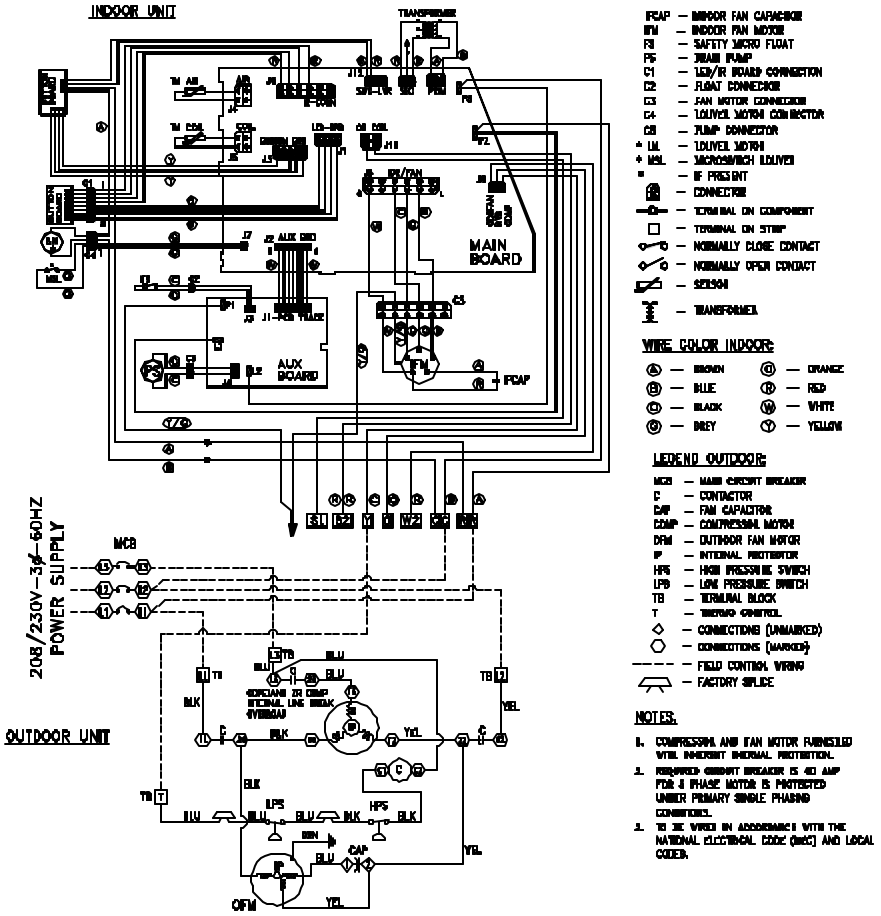


38ASB360BA MATCHED WITH 40LX040

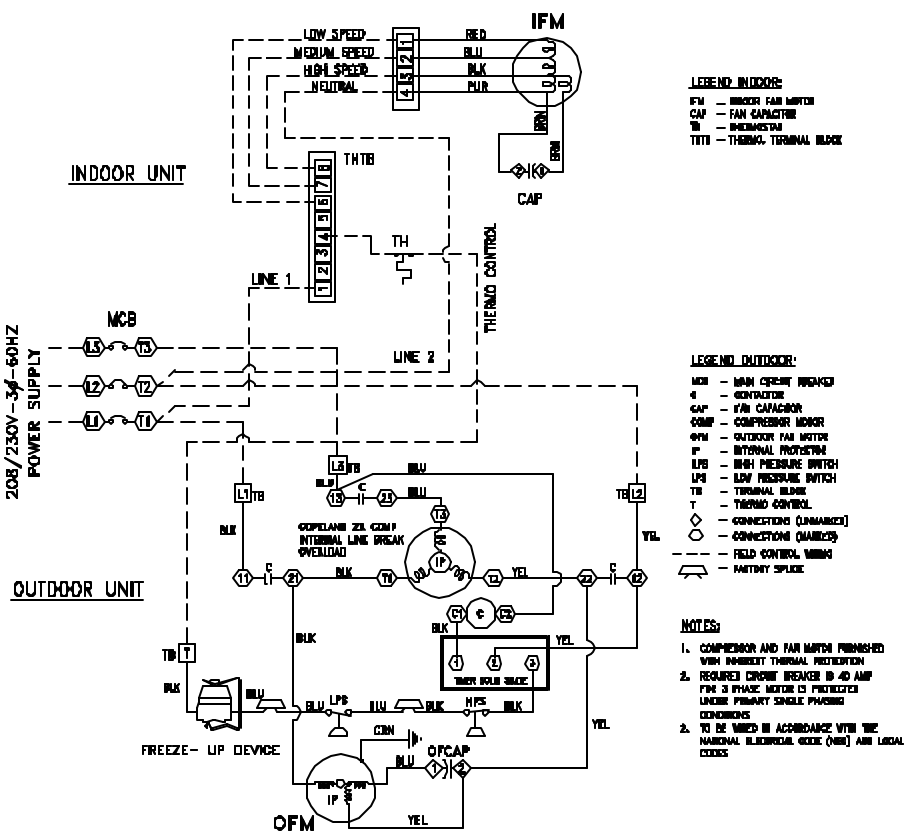

INDOOR UNIT
OUTDOOR UNIT
MAIN PCB
MCB
208/230V-3ϕ-60HZ POWER SUPPLY
IFM
CAP
OFM
LEGEND INDOOR:
IFM — INDOOR FAN MOTOR
FLM — FLAP MOTOR
CAP — CAPACITOR
F — FUSE
FC — FAN COMMON
FH — FAN HIGH SPEED
FL — FAN LOW SPEED
FM — FAN MEDIUM SPEED
L — LIVE
N — NEUTRAL
NC — NOT CONNECTED
RLY — RELAY
TB — TERMINAL BLOCK
EQUIPMENT GROUND
LEGEND OUTDOOR:
MCB — MAIN CIRCUIT BREAKER
C — CONTACTOR
CAP — FAN CAPACITOR
COMP — COMPRESSOR MOTOR
OFM — OUTDOOR FAN MOTOR
IP — INTERNAL PROTECTOR
HPS — HIGH PRESSURE SWITCH
LPS — LOW PRESSURE SWITCH
TB — TERMINAL BLOCK
T — THERMO CONTROL
CONNECTIONS (UNMARKED)
CONNECTIONS (MARKED)
FIELD CONTROL WIRING
FACTORY SPLICE
NOTES:
1. COMPRESSOR AND FAN MOTOR FURNISHED WITH INHERENT THERMAL PROTECTION.
2. REQUIRED CIRCUIT BREAKER IS 40 AMP FOR 3 PHASE MOTOR IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
3. TO BE WIRED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES.

38ASB600DC MATCHED WITH 42AR / 42GX060

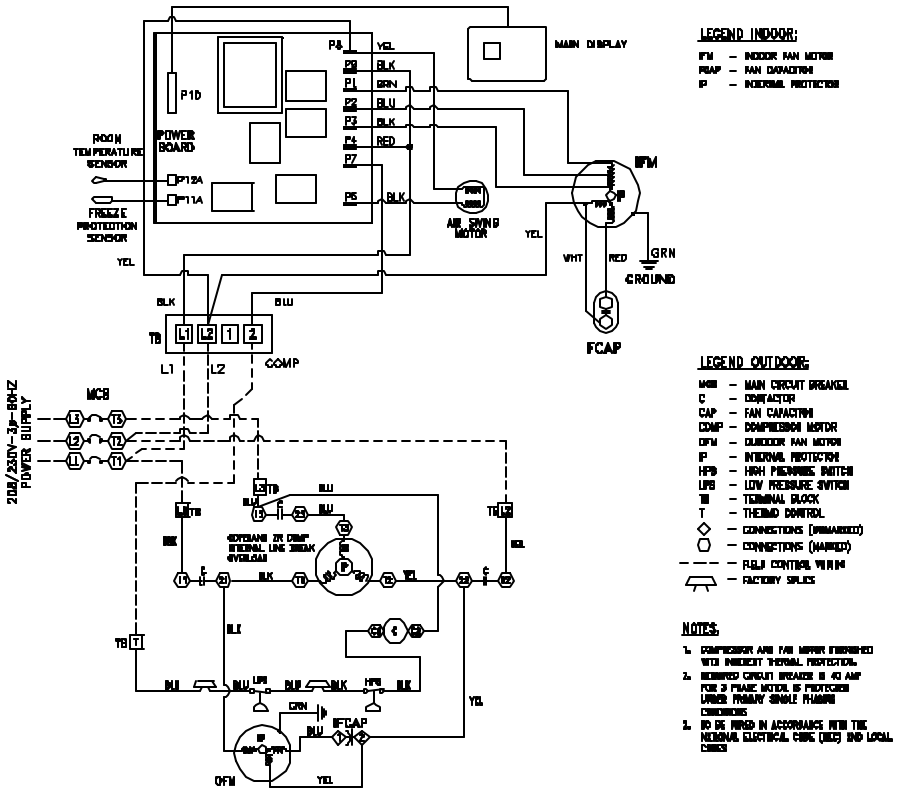
FIG. 16 SCHEMATIC SYSTEM WIRING DIAGRAM



38ASB600DC MATCHED WITH 40GKX / KMC060



38ASB600DB MATCHED WITH 40LX060



LEGEND INDOOR:

IFM – INDOOR FAN MOTOR
IFMCAP – FAN CAPACITOR
IP – INDOOR PROTECTOR

LEGEND OUTDOOR:

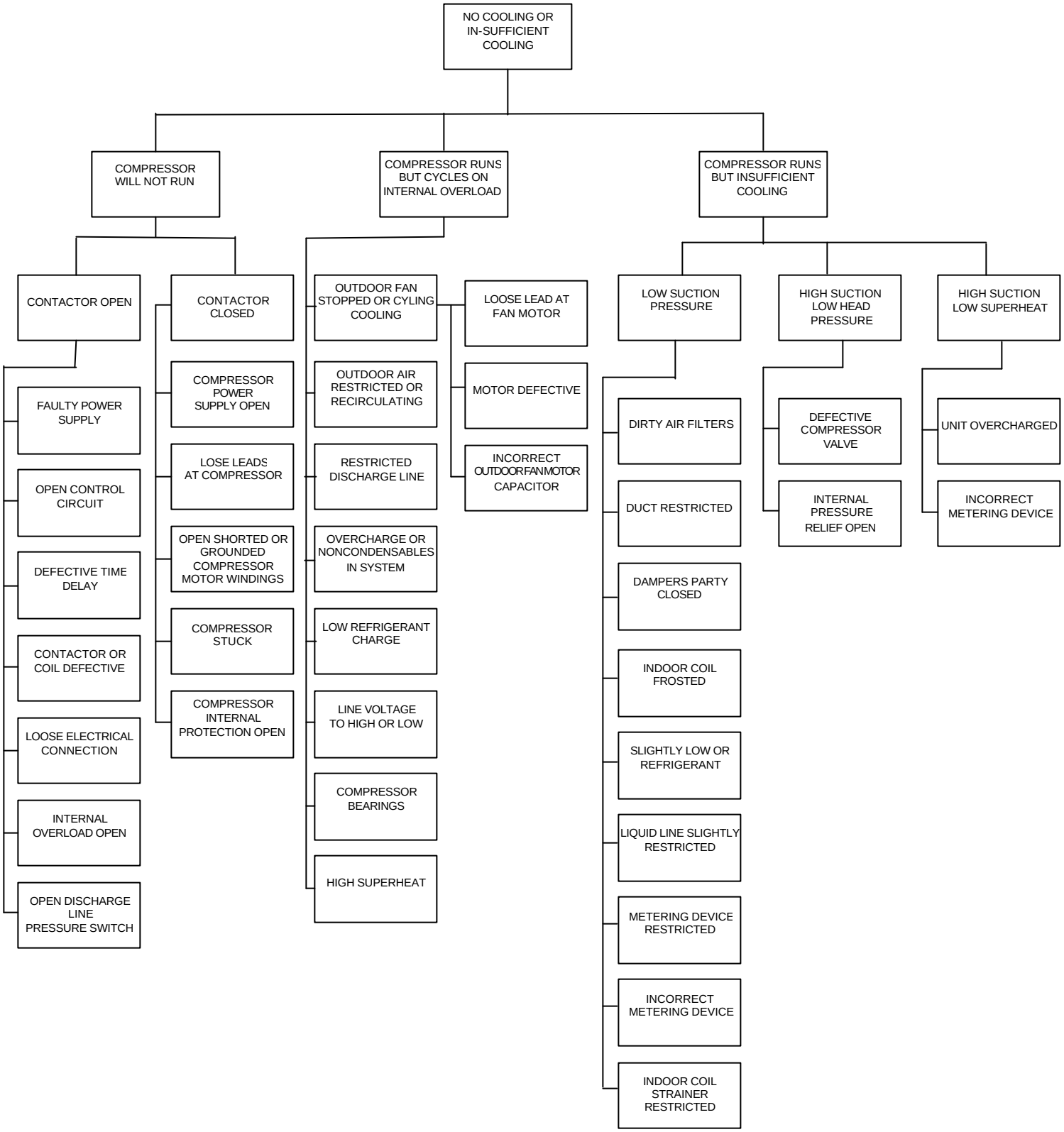
MCB – MAIN CIRCUIT BREAKER
C – CONTACTOR
CAP – FAN CAPACITOR
COMP – COMPRESSOR MOTOR
OFM – OUTDOOR FAN MOTOR
IP – INTERNAL PROTECTOR
HPS – HIGH PRESSURE SWITCH
LPS – LOW PRESSURE SWITCH
TB – TERMINAL BLOCK
T – THERMO CONTROL
◇ – CONNECTIONS (PRIMARIES)
⬡ – CONNECTIONS (MARKED)
– – – FIELD CONTROL WIRING
FACTORY SPLICE

NOTES:

1. COMPRESSOR AND FAN MOTOR PROTECTED WITH INDIRECT THERMAL PROTECTION.
2. RECOMMEND CIRCUIT BREAKER IS 40 AMP FOR 3 PHASE MOTOR IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
3. TO BE WIRED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES

38ASB600DC MATCHED WITH ASBFE600BA

TROUBLE-SHOOTING CHART – COOLING CYCLE



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Website: www.carrier.com.ph

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